

Form PT-1449

**INFORMATION DISCLOSURE CITATION
IN AN APPLICATION**

(Use several sheets if necessary)

Docket Number (Optional)
MSA-010.03 (20974-1003)Application Number
09/845,129

Applicant Gordon W. Duff et al.

Filing Date April 27, 2001

Group Art Unit 1655

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA 5,686,246	11/11/97	Kornman et al.	435	6	08/03/95
	AB 5,698,399	12/16/97	Duff et al.	435	6	04/05/96

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	AC WO 97/25445	7/17/97	PCT				
	AD WO 98/44150	10/8/98	PCT				
	AE WO 98/15653	4/16/98	PCT				
	AF WO 98/54359	12/3/98	PCT				

OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

	AG	Bailly et al.; " An Intronic Polymorphic Repeat Sequence Modulates Interleukin-1 Alpha Gene Regulation", Molecular Immunology 33(11/12):999-1006 (1996)
	AH	Bailly et al.; " Genetic Polymorphism of Human Interleukin-1 α ", Eur. J. Immunol. 23: 1240-1245 (1993)
	AI	Blakemore et al.; " Association of Graves' Disease with an Allele of the Interleukin-1 Receptor Antagonist Gene ", Journal of Clinical Endocrinology and Metabolism 80(1): 111-115 (1995).
	AJ	Blakemore et al.; " Interleukin-1 Receptor Antagonist Gene Polymorphism as a Disease Severity Factor in Systemic Lupus Erythematosus", Arthritis & Rheumatism 37(9): 1380-1385 (September 1994).
	AK	Clay et al.; " Interleukin-1 Receptor Antagonist Gene Polymorphism Association with Lichen Sclerosus", Hum. Genet. 94: 407-410 (1994).
	AL	Copeman et al.; "Linkage Disequilibrium Mapping of a Type 1 Diabetes Susceptibility Gene (IDDM7) to Chromosome 2q31-q33", Nature Genetics 9: 80-85(1995).
	AM	Cork et al.; " Genetic Control of Cytokines ; Cytokine Gene Polymorphisms in Alopecia Areata ", Dermatologic Clinics 14(4): 671-678 (October 1996)
	AN	Cox et al.; " An Analysis of Linkage Disequilibrium in the Interleukin-1 Gene Cluster, Using a Novel Grouping Method for Multiallelic Markers", Am. J. Hum. Genet. 62:1180-1188(1998)
	AO	Guash et al.; " Five Novel Intragenic Dimorphism in the Human Interleukin-1 Genes Combine to High Informativity", Cytokine 8(8): 598, (1996)
	AP	Hart and Kornman; " Genetic Factors in the Pathogenesis of Periodontitis", Periodontology 14: 202-215 (2000).
	AQ	Hurme et al.; " IL-1 Receptor Antagonist (IL-1Ra) Plasma Levels are co-ordinately Regulated by Both IL-1Ra and IL-1B Genes", European J. Immunol., 28:2598, (1998)
	AR	Kimble et al.; " Interleukin-1 Receptor Antagonist Decreases Bone Loss and Bone Resorption in Ovariectomized Rats", J. Clin. Invest. 93: 1959, (1994)

AS	Kornman, KS et al.; "The Interleukin-1 Genotype as a Severity Factor in Adult Periodontal Disease", <i>J. Clin. Periodontol.</i> 24: 72-77 (1997).
AT	Lander and Schork; "Genetic Dissection of Complex Traits ", <i>Science</i> 265: 2037-2048 (September 30, 1994)
AU	Mansfield et al.; "Novel Genetic Association Between Ulcerative Colitis and the Anti-inflammatory Cytokine Interleukin-1 Receptor Antagonist", <i>Gastroenterology</i> 106: 637-642 (1994).
AV	McDowell et al.; "A Genetic Association Between Juvenile Rheumatoid Arthritis and a Novel Interleukin-1 α Polymorphism", <i>Arthritis and Rheumatism</i> 38(2): 221-228 (February 1995).
AW	McGuire et al.; "Variation in the TNF- α Region Associated with Susceptibility to Cerebral Malaria", <i>Nature</i> 371: 508-511 (October 6, 1994).
AX	Nicklin et al.; "A Physical Map of the Region Encompassing the Human Interleukin-1 α , Interleukin-1 β , and Interleukin-1 Receptor Antagonist Genes", <i>Genomics</i> 19: 382-384 (1994).
AY	Pociot et al.; "A TaqI Polymorphism in the Human Interleukin-1 β (IL-1 β) Gene Correlates with IL-1 β Secretion in Vitro ", <i>European Journal of Clinical Investigation</i> 22: 396-402 (1992)
AZ	Andus, T. et al., "IL-1ra genotype 2 is associated with reduced IL-1ra in colonic mucosa", <i>Gastroenterology</i> , 108:A3070 (1996).
BA	Andus, T. et al., "Imbalance of the interleukin 1 system in colonic mucosa--association with intestinal inflammation and interleukin 1 receptor antagonist genotype 2", <i>Gut</i> , 41:651-657 (1997).
BB	Bioque, G. et al., "Allelic polymorphism in IL-1 β and IL-1 receptor antagonist genes in inflammatory bowel disease", <i>Clinical and experimental Immunology</i> , 102:379-383 (1995).
BC	Blakemore, A. et al., "Interleukin-1 receptor antagonist allele (IL1RN*2) associated with neuropathy in diabetes mellitus", <i>Human Genetics</i> , 97:374 (1996).
BD	Clay, F. et al., "Novel interleukin-1 receptor antagonist exon polymorphisms and their use in allele-specific mRNA assesment", <i>Human Genetics</i> , 97:723-726 (1996).
BE	Cork, M.J. et al., "An allele in of the interleukin-1 receptor antagonist as a genetic severity factor in alopecia areata", <i>J. Investigative Dermatology</i> , 104:15S-16S (1995).
BF	Cox, A. et al., "An analysis of Linkage Disequilibrium in the Interleukin-1 Gene Cluster, Using a Novel Grouping Method for Multiallelic Markers", <i>Am. J. Hum. Genet.</i> , 62:1180-1188 (1998).
BG	Crusius, J.B.A. et al., "Interleukin-1 receptor antagonist gene polymorphism and multiple sclerosis", <i>Lancet</i> , 346:979-980 (1995).
BH	Cuddihy, R. et al., "Lack of association between alleles of interleukin-1 alpha and interleukin-1 receptor antagonist genes and Graves' disease in a North American Caucasian population" <i>J. of Clinical Endocrinology & Metabolism</i> , 81:4476-4478 (1996).
BI	Diehl, S. et al., "Interleukin-1 genotypes and the risk of early onset periodontitis- a family based study of linkage disequilibrium", <i>J. Dental Research</i> , 77 Suppl. :195 (1998).
BJ	Duerr, R.H. et al., "Association between ulcerative colitis and a polymorphism in intron 2 of the interleukin-1 receptor antagonist gene", <i>Gastroenterology</i> , 108:A812 (1995).
BK	Eastell, R. et al., "IL-1 receptor antagonist genotype as a predictor of bone loss in postmenopausal women", <i>Bone</i> , 23 (5s):S375 (1998).
BL	Eastell, R. et al., "IL-1 receptor antagonist genotype is associated with a low bone mineral density in postmenopausal women", <i>Bone</i> , 23 (5S):S375 (1998).
BM	Engelbreton, S.P. et al., "The influence of interleukin-1 (IL-1) gene polymorphisms on expression of IL-1 β and tumor necrosis factor alpha (TNF α) in periodontal tissue and gingival crevicular fluid", <i>J. Periodontology</i> (1998).
BN	Freedman, B. I. et al., "Genetic linkage analysis of growth factor loci and end-stage renal disease in African Americans", <i>Kidney International</i> , 51(3):819-825 (1997).
BO	Friedlander, R. M. et al., " Inhibition of ICE slows ALS in mice", <i>Nature</i> , 388:31 (1997).

BP	Gore, E.A. et al., "Interleukin-1 β ³⁹⁵³ allele 2: association with disease status in adult periodontitis", <i>J. Clin. Periodontology</i> , 25:781-785 (1998).
BQ	Herren, L.T. et al., "IL-1 receptor antagonist as a potential new therapeutic agent for osteoporosis: a computer simulation model of bone remodeling and osteoporosis", <i>Bone</i> , 23 (5S): S620 (1998).
BR	Horai, R. et al. Production of mice deficient in genes for interleukin (IL)-1 alpha, IL-1 beta IL-1 alpha/beta, and IL-1 receptor antagonist shows that IL-1 beta is crucial in turpentine-induced fever development and glucocorticoid secretion", <i>J. Experimental Medicine</i> , 187:1463-1475 (1998).
BS	Hurme, M. et al., "Polymorphisms of the IL-1 gene complex in Epstein-Barr virus seronegative and seropositive adult blood donors", <i>Scandinavian J. of Immunology</i> , 48:219-222 (1998).
BT	Keen, R.W. et al., "Allelic variation at the interleukin-1 receptor antagonist gene is associated with early postmenopausal bone loss at the spine", <i>Bone</i> , 23:367-371 (1998).
BU	Louis, E. et al., "Cytokine gene polymorphism in inflammatory bowel diseases", <i>Gut</i> , 39:705-710 (1996).
BV	Mandrup-Poulsen T. et al., "Monokine antagonism is reduced in patients with IDDM", <i>Diabetes</i> , 43:1242-1247 (1994).
BW	McGuire M.K. et al.; "Prognosis versus actual outcome. IV. The effectiveness of clinical parameters and IL-1 genotype in accurately predicting prognosis and tooth survival", <i>J. Periodontology</i> , (1998)
BX	Muhlberg, T. et al, "Lack of Association of Graves' Disease with the A2 Allele of the Interleukin-1 Receptor Antagonist in a White European Population", <i>European J. of Endocrinology</i> , 138:686-690 (1998).
BY	deleted from list
BZ	Okada, H. et al., "Cytokine expression in periodontal health and disease", <i>Critical Reviews in Oral Biology & Medicine</i> , 9:248-266 (1998).
CA	Stokkers, P.C.F. et al., "Five genetic markers in the interleukin-1 family in relation to inflammatory bowel disease", <i>Gut</i> , 43:33-39 (1998).
CB	Suzuki, H. et al., "Interleukin-1 receptor antagonist gene polymorphism in Japanese patients with systemic lupus erythematosus", <i>Concise Communications</i> , 389-390.
CC	Tarlow, J. et al., "Association between interleukin-1 receptor antagonist (IL-1ra) gene polymorphism and early and late-onset psoriasis", <i>British Journal of Dermatology</i> , 148-149 (1997).
CD	Tarlow, J.K. et al., "Severity of Alopecia areata is associated with a polymorphism in the interleukin-1 receptor antagonist gene", <i>J. Invest. Dermatol.</i> 103: 387-390 (1994).
CE	Tarnow, L. et al., "Polymorphisms in the interleukin-1 gene cluster do not contribute to the genetic susceptibility of diabetic neuropathy in Caucasian patients with IDDM", <i>Diabetes</i> , 46:1075-1076 (1997).
CF	Clark et al.; "Genomic Sequence for Human Prointerleukin 1 beta: Possible Evolution from the a Reverse Transcribed Prointerleukin 1 alpha Gene ", <i>Nucleic Acids Research</i> , 14 (20): 7897- 7914 (1986).
CG	Di Giovine et al., "Single Base Polymorphism at -511 in the Human Interleukin-1 β Gene (IL1 β)", <i>Human Molecular Genetics</i> , 1 (6): 450 (September 1992).
CH	Clay, et al., " Novel Interleukin-1 Receptor Antagonist <u>Exon Polymorphisms</u> and their use in Allele-specific mRNA Assessment", <i>Hum. Genet.</i> 97 (6): 723-726 (June 1996).
CI	Duff, " Molecular Genetics of Cytokines", <i>The Cytokine Handbook</i> (1994 2 nd ed., chap. 2 :21-30.
CJ	International Search Report Completed on April 04, 2001 and mailed on July 12, 2001

EXAMINER

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.